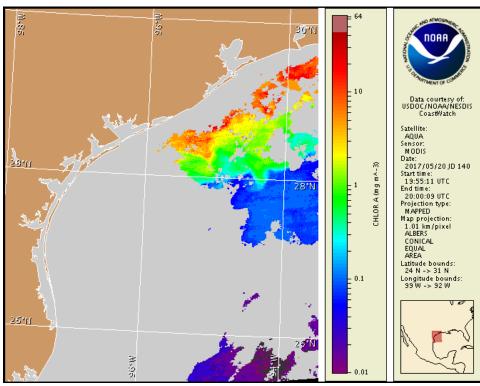


Gulf of Mexico Harmful Algal Bloom Bulletin

Region: Texas Monday, 22 May 2017 NOAA National Ocean Service NOAA Satellite and Information Service NOAA National Weather Service

Last bulletin: Monday, May 15, 2017



Satellite chlorophyll image with possible *K. brevis* HAB areas shown by red polygon(s), when applicable. Points represent cell concentration sampling data from May 12 to 19: red (high), orange (medium), yellow (low b), brown (low a), blue (very low b), purple (very low a), pink (present), and green (not present). Cell count data are provided by Texas Parks and Wildlife Department. For a list of sample providers and a key to the cell concentration categories, please see the HAB-OFS bulletin guide:

http://tidesandcurrents.noaa.gov/hab/hab_publication/habfs_bulletin_guide.pdf

Detailed sample information can be obtained through the Texas Parks and Wildlife Department at: http://www.tpwd.state.tx.us./landwater/water/environconcerns/hab/redtide/status.phtml

http://tidesandcurrents.noaa.gov/hab/bulletins.html

Conditions Report

Karenia brevis (commonly known as Texas red tide) ranges from not present to background concentrations along the coast of Texas. No respiratory irritation is expected Monday, May 22 through Tuesday, May 30.

Check https://tidesandcurrents.noaa.gov/hab/beach_conditions.html for recent, local observations.

Analysis

Due to the upcoming federal holiday, the next bulletin will be issued on Tuesday, May 30.

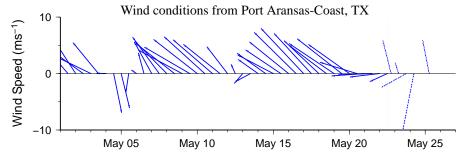
Sampling from the Texas A&M University's Imaging FlowCytobot (IFCB), located on the Port Aransas ship channel, indicates that *Karenia brevis* concentrations range between 'not present' and 'background' (TAMU; 5/15-5/22). For information on area shellfish restrictions, contact the Texas Department of State Health Services.

Recent MODIS Aqua ensemble imagery (5/20; shown left) is mostly obscured by cloud along the Texas coast, limiting analysis. Elevated to high chlorophyll (3 to $19\mu g/L$) with the optical characteristics of *K. brevis* is visible offshore from the Sabine Pass region to the Matagorda Peninsula region. However, elevated chlorophyll is not indicative of the presence of *K. brevis* and is most likely due to the resuspension of benthic chlorophyll and sediments along the coast.

Forecast models based on predicted near-surface currents indicate a potential maximum transport of 80km south from the Port Aransas region from May 20-25.

Yang, Davis

To see previous bulletins and forecasts for other Harmful Algal Bloom Bulletin regions, visit the NOAA Harmful Algal Bloom Operational Forecast System bulletin archive:

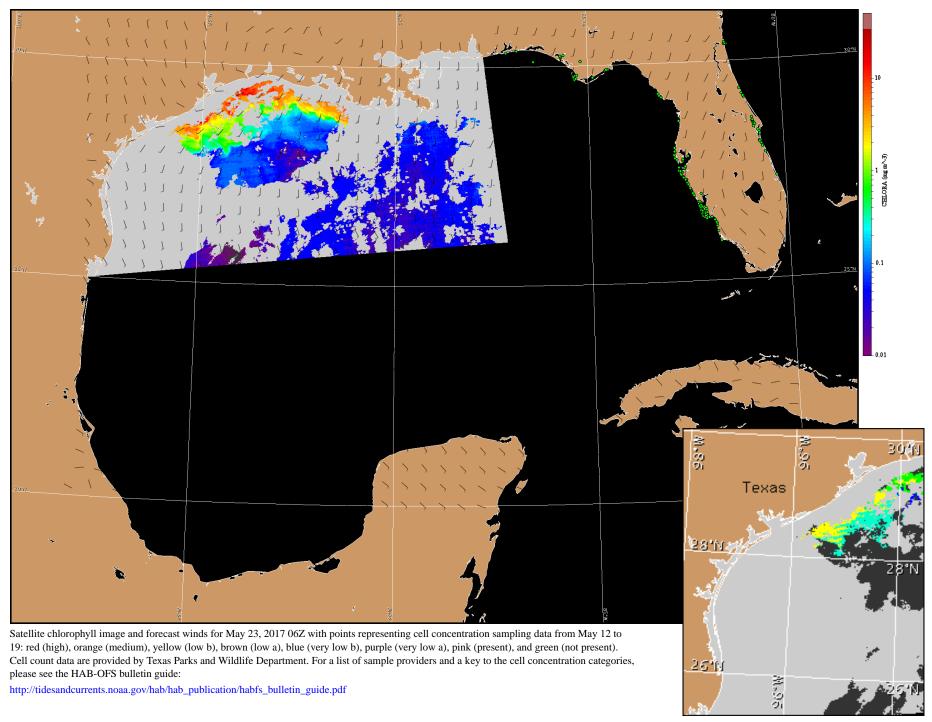


Wind speed and direction are averaged over 12 hours from buoy measurements. Length of line indicates speed; angle indicates direction. Red indicates that the wind direction favors upwelling near the coast. Values to the left of the dotted vertical line are measured values; values to the right are forecasts. Wind observation and forecast data provided by NOAA's National Weather Service (NWS).

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Wind Analysis

Port Aransas to Matagorda Ship Channel: Southeast to east winds (5-10kn, 3-5m/s) today. Northeast to east winds (5-20kn, 3-10m/s) Tuesday and Wednesday. Southeast to south winds (5-20kn) Wednesday night through Friday night.



Verified and suspected HAB areas shown in red. Other areas with *K. brevis* optical characteristics shown in yellow (see p. 1 analysis for interpretation).